

## Anti-Hu CD38 Purified Monoclonal Antibody

Catalog Number: M00193-1

### About CD38

CD38 (NAD<sup>+</sup> glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD<sup>+</sup> glycohydrolase converting NAD<sup>+</sup> into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-Hu CD38 Purified Monoclonal Antibody   |
| Reactive Species     | Human   |
| Description          | Boster Bio Anti-Hu CD38 Purified Monoclonal Antibody (Catalog# M00193-1). Tested in Flow Cytometry, WB, IHC-P, IHC-F application(s). This antibody reacts with Human. |
| Application          | Flow Cytometry, IHC-P, IHC-F, WB  |
| Clonality            | Monoclonal HIT2   |
| Formulation          | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide   |
| Storage Instructions | Store at 2-8°C. Do not freeze.  |
| Host                 | Mouse   |
| Uniprot ID           | P28907  |

### Technical Details

|                            |   |
|----------------------------|---|
| Immunogen                  | Human thymocytes in foetus. The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of CD38, a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells. Its binding is blocked by daratumumab. |
| Predicted Reactive Species | Primate   |
| Isotype                    | Mouse IgG1  |
| Form                       | Liquid  |
| Concentration              | 1 mg/ml   |
| Purification               | Purified by protein-A affinity chromatography.  |
| Suggested Dilutions        | Dilute the sample so that the expected range of concentrations fall within the detection range of this  |

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (paraffin sections): 10 ug/ml.

Western blotting: 2 ug/ml; positive control: RAJI human cell line, non-reducing conditions.

Flow cytometry: 1-4 µg/ml

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